

Amendments to Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (previously presented) A transgenic oilseed plant that produces mature seeds in which the total seed fatty acid profile comprises at least 1.0 % of at least one polyunsaturated fatty acid having at least twenty carbon atoms and five or more carbon-carbon double bonds.

Claims 2-10. (cancelled)

Claim 11. (previously presented) The oilseed plant of Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid.

Claim 12. (previously presented) The oilseed plant of Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of eicosapentaenoic acid (EPA), docosapentaenoic acid (DPA), and docosahexaenoic acid (DHA).

Claims 13-15. (cancelled)

Claim 16. (previously presented) Seeds obtained from the plant of Claim 1 wherein said seeds comprise the transgene.

Claim 17. (previously presented) Seeds obtained from the plant Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid wherein said seeds comprise the transgene.

Claim 18. (previously presented) Seeds obtained from the plant Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA wherein said seeds comprise the transgene.

Claims 19-20 (cancelled)

Claim 21. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1, 11 or 12.

Claim 22. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1, 11 or 12 wherein the polyunsaturated fatty acid an omega-3 fatty acid.

Claim 23. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1, 11 or 12 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claim 24. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1-10 wherein the polyunsaturated fatty acid is an omega-3 fatty acid and the total seed fatty acid profile further comprises less than 2.0% arachidonic acid.

Claim 25. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1-10 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA, and the total seed fatty acid profile further comprises less than 2.0% arachidonic acid.

Claim 26. (previously presented) The plant of Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower.

Claim 27. (previously presented) The plant of Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower, and further wherein the polyunsaturated fatty acid is an omega-3 fatty acid.

Claim 28. (previously presented) The plant of Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower, and further wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claims 29-139. (cancelled)

Claim 140. (withdrawn) A by-product obtained from the processing of the seeds obtained from a plant of any of claims 1, 11, or 12.